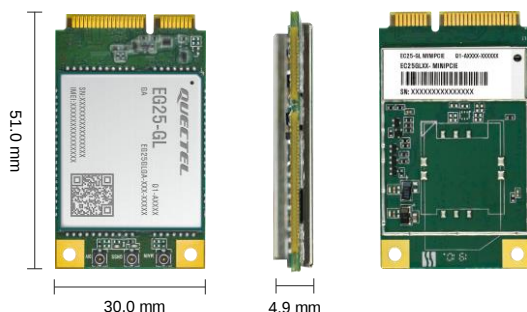




Quectel EG25-GL Mini PCIe

IoT/M2M-optimized LTE Cat 4 Module



Quectel EG25-GL Mini PCIe is an LTE Cat 4 module adopting standard PCI Express® Mini Card form factor (Mini PCIe). It is optimized specially for M2M and IoT applications, and delivers maximum data rates up to 150 Mbps downlink and 50 Mbps uplink.

EG25-GL Mini PCIe is backward-compatible with existing EDGE and GSM/GPRS networks, ensuring that it can be connected even in remote areas devoid of 4G or 3G coverage.

EG25-GL Mini PCIe supports Qualcomm® IZat™ location technology Gen8C Lite (GPS, GLONASS, BDS, Galileo and QZSS). The integrated GNSS greatly simplifies product design, and provides quicker, more accurate and dependable positioning.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB serial drivers for Windows 8/8.1/10/11, Linux, Android) extend the applicability of the module to a wide range of M2M applications such as industrial router, industrial PDA, rugged tablet PC, video transmission and digital signage.



Key Features

- ✓ LTE Cat 4 module optimized for broadband IoT applications
- ✓ Worldwide LTE, UMTS/HSPA(+) and GSM/GPRS/EDGE coverage
- ✓ Multi-constellation GNSS receiver available for applications requiring fast and accurate fixes in any environment
- ✓ Standard PCI Express® Mini Card form factor (Mini PCIe) ideal for manufacturers to easily integrate wireless connectivity into their devices
- ✓ MIMO technology meets demands for data rate and link reliability in modem wireless communication systems



LTE Cat 4
Max. 150 Mbps (DL)
Max. 50 Mbps (UL)



Max. 42 Mbps (DL)
Max. 5.76 Mbps (UL)



Mini PCIe
Package



USB Drivers



Quectel Enhanced
AT Commands



USB 2.0 High Speed
Interface



Embedded Abundant
Protocols



Multi-constellation GNSS
(Optional)

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LTE Cat 4	EG25-GL Mini PCIe
Region/Operator	Global
Dimensions (mm)	30.0 × 51.0 × 4.9
Weight (g)	Approx. 10.5
Temperature Range	
Operating Temperature	-35 °C to +75 °C
Extended Temperature	-40 °C to +80 °C
Frequency Bands	
LTE-FDD	B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66
LTE-TDD	B34/38/39/40/41
WCDMA	B1/2/4/5/6/8/19
TD-SCDMA	-
GSM/EDGE	B2/3/5/8
GNSS (Optional)	GPS/GLONASS/BDS/Galileo/QZSS
Certifications	
Carrier	America: Verizon*/AT&T*
Regulatory	Global: GCF
	Europe: CE
	North America: PTCRB*
	America: FCC
	The UK: UKCA
	Canada: IC
	Brazil: Anatel*
	China: SRRC*/NAL*/CCC*
	Taiwan, China: NCC
Others	Australia/New Zealand: RCM
	WHQL
Max. Data Rates	
LTE-FDD (Mbps)	150 (DL)/50 (UL)
LTE-TDD (Mbps)	130 (DL)/30 (UL)
DC-HSPA+ (Mbps)	42 (DL)/5.76 (UL)
WCDMA (kbps)	384 (DL)/384 (UL)
EDGE (kbps)	296 (DL)/236.8 (UL)
GPRS (kbps)	107 (DL)/85.6 (UL)
Interfaces	
(U)SIM	× 1
UART	× 1 (Main UART)
USB 2.0	× 1
Digital Audio (PCM)	× 1
I2C	× 1
Voice	
Speech Codec Modes	HR/FR/EFR/AMR/AMR-WB
Echo Arithmetic	Echo Cancellation/Noise Suppression
VoLTE (Optional)	Digital Audio and VoLTE (Voice over LTE)
Enhanced Features	
DTMF	●
DFOTA	●
QMI/RmNet	●
Audio Playback/Audio Recording	Optional
QuecOpen®	-
QuecFile®	●
(U)SIM Card Detection	●

NOTE:

- * : In progress.
- : Supported.

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LTE Cat 4 EG25-GL Mini PCIe	
Software Features	
Protocols	TCP/UDP/PPP/FTP/HTTP/NTP/PING/QMI/NITZ/SMTP/MQTT/CMUX/HTTPS/FTPS/SMTPS/SSL/MMS/FILE
Drivers	
USB Serial Driver	Windows 8/8.1/10/11 Linux 2.6–6.5 Android 4.x–13.x
GNSS Driver	Android 4.x–13.x
RIL Driver	Android 4.x–13.x
USB NDIS Driver	Windows 8/8.1/10/11
USB GobiNet Driver	Linux 2.6–6.5
USB QMI_WWAN Driver	Linux 3.4–6.5
Electrical Features	
Supply Voltage Range	3.0–3.6 V, typ. 3.3 V
Power Consumption (Typ.)	20 μ A @ Power off 2.4 mA @ Sleep 22.3 mA @ Idle

